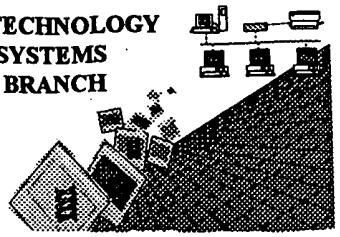
SK

BIOTECHNOLOGY SYSTEMS BRANCH



RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number: 10/088,639
Source: PCT/10
Date Processed by STIC: 8/6/2002

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Revised 01/29/2002

PCT10

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/088,639

DATE: 08/06/2002
TIME: 14:10:46

Input Set : A:\003300-920.ST25.txt
Output Set: N:\CRF3\08062002\J088639.raw

Does Not Comply
Corrected Diskette Needed
pp1-3, 6, 11-14

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 4 <110> APPLICANT: Brodin, Thomas
 5       Karlstrom, Pia J.
 6       Ohlsson, Lennart G.
 7       Tordsson, Jesper M.
 8       Kearney, Philip P.
 9       Nilson, Bo H.K.
11 <120> TITLE OF INVENTION: Novel Compounds
13 <130> FILE REFERENCE: 003300-920
15 <140> CURRENT APPLICATION NUMBER: US 10/088,639
16 <141> CURRENT FILING DATE: 2002-03-20
18 <150> PRIOR APPLICATION NUMBER: SE 9903895-2
19 <151> PRIOR FILING DATE: 1999-10-28
21 <160> NUMBER OF SEQ ID NOS: 51
23 <170> SOFTWARE: PatentIn Ver. 2.1
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ERRORED SEQUENCES

(GLOBAL error)

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26 <211> LENGTH: 747
27 <212> TYPE: DNA
28 <213> ORGANISM: Macaca fascicularis
30 <221> NAME/KEY: CDS
31 <222> LOCATION: (1)..(747)
33 <223> OTHER INFORMATION: Coding sequence VL (1-109) - modified Huston
34       linker (110-127) - VH (128-249)
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39   1               5                  10                  15
41 aca gtc agg atg acc tgc caa gga gac agc ctc aaa acc tat tat gca   96
42 Thr Val Arg Met Thr Cys Gln Gly Asp Ser Leu Lys Thr Tyr Tyr Ala
43              20                  25                  30
45 agc tgg tac cag cag aag cca ggc cag gtc cct gtg ctg gtc atc tat   144
46 Ser Trp Tyr Gln Gln Lys Pro Gly Gln Val Pro Val Leu Val Ile Tyr
47          35                  40                  45
49 ggt aac aac tac cgg ccc tca ggg atc cca ggc cga ttc tct ggc tcc   192
50 Gly Asn Asn Tyr Arg Pro Ser Gly Ile Pro Gly Arg Phe Ser Gly Ser
51      50                  55                  60
53 tgg tca gga aac aca gct tcc ttg acc atc act gcg gct cag gtg gaa   240
54 Trp Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Ala Ala Gln Val Glu
55  65                  70                  75                  80
57 gat gag gct gac tat tac tgt aac tcc tgg gac agc agc ggt acc cat   288
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<2207 insert this mandatory numeric identifier whenever <2217, <2227, or <2237 is shown

RAW SEQUENCE LISTING DATE: 08/06/2002
PATENT APPLICATION: US/10/088,639 TIME: 14:10:46

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Output Set: N:\CRF3\08062002\J088639.raw

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 58 Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Trp Asp Ser Ser Gly Thr His
 59                  85                  90                  95
 61 ccg gta ttc ggc gga ggg acc cgg gtg acc gtc cta ggt caa gcc aac   336
 62 Pro Val Phe Gly Gly Gly Thr Arg Val Thr Val Leu Gly Gln Ala Asn
 63             100                 105                 110
 65 ggt gaa ggc ggc tct ggt ggc ggg gga tcc gga ggc ggc ggt tct gag   384
 66 Gly Glu Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu
 67         115                 120                 125
 68 gtg cag ttg gtg gag tct ggg gga ggc ttg gta aag cct ggg ggg tcc   432
 69 Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly Ser
 70     130                 135                 140
 72 ctg aga ctc tct tgt gta gcc tct ggg tcc atc ttc agt agc tct gtt   480
 73 Leu Arg Leu Ser Cys Val Ala Ser Gly Ser Ile Phe Ser Ser Ser Val
 74 145                 150                 155                 160
 76 atg cac tgg gtc cgc cag gct cca gga aag ggt ctg gag tgg gtc tca   528
 77 Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
 78                 165                 170                 175
 80 gtt att agt gaa aat ggg cgt acc att aac tac gca gac tct gtg aag   576
 81 Val Ile Ser Glu Asn Gly Arg Thr Ile Asn Tyr Ala Asp Ser Val Lys
 82             180                 185                 190
 84 ggc cga ttc acc atc tcc aga gac aac gcc aag aac tca ctg ttt ctg   624
 85 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Phe Leu
 86         195                 200                 205
 88 cag atg aac agc ctg aca ggc gag gac acg gcc gtc tat tac tgt agt   672
 89 Gln Met Asn Ser Leu Thr Gly Glu Asp Thr Ala Val Tyr Tyr Cys Ser
 90     210                 215                 220
 92 aga gag ggg gga cct gga aca acg tcc aac cgg ctc gat gcc tgg ggc   720
 93 Arg Glu Gly Gly Pro Gly Thr Thr Ser Asn Arg Leu Asp Ala Trp Gly
 94 225                 230                 235                 240
 96 ccg gga gtc ctg gtc acc gtt tcc tca                             747
 97 Pro Gly Val Leu Val Thr Val Ser Ser
 98                 245
101 <210> SEQ ID NO: 2
102 <211> LENGTH: 249
103 <212> TYPE: PRT
104 <213> ORGANISM: Macaca fascicularis
105 <223> OTHER INFORMATION: Coding sequence VL (1-109) - modified Huston
106       linker (110-127) - VH (128-249)
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112 Thr Val Arg Met Thr Cys Gln Gly Asp Ser Leu Lys Thr Tyr Tyr Ala
113              20                  25                  30
115 Ser Trp Tyr Gln Gln Lys Pro Gly Gln Val Pro Val Leu Val Ile Tyr
116          35                  40                  45
118 Gly Asn Asn Tyr Arg Pro Ser Gly Ile Pro Gly Arg Phe Ser Gly Ser
119      50                  55                  60
121 Trp Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Ala Ala Gln Val Glu
122  65                  70                  75                  80
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same error

RAW SEQUENCE LISTING DATE: 08/06/2002
PATENT APPLICATION: US/10/088,639 TIME: 14:10:46

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Output Set: N:\CRF3\08062002\J088639.raw

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124 Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Trp Asp Ser Ser Gly Thr His
125                  85                  90                  95
127 Pro Val Phe Gly Gly Gly Thr Arg Val Thr Val Leu Gly Gln Ala Asn
128              100                 105                 110
129 Gly Glu Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu
130          115                 120                 125
132 Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly Ser
133      130                 135                 140
135 Leu Arg Leu Ser Cys Val Ala Ser Gly Ser Ile Phe Ser Ser Ser Val
136 145                 150                 155                 160
138 Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
139                 165                 170                 175
141 Val Ile Ser Glu Asn Gly Arg Thr Ile Asn Tyr Ala Asp Ser Val Lys
142              180                 185                 190
144 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Phe Leu
145          195                 200                 205
147 Gln Met Asn Ser Leu Thr Gly Glu Asp Thr Ala Val Tyr Tyr Cys Ser
148      210                 215                 220
150 Arg Glu Gly Gly Pro Gly Thr Thr Ser Asn Arg Leu Asp Ala Trp Gly
151 225                 230                 235                 240
153 Pro Gly Val Leu Val Thr Val Ser Ser
154                 245
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159 <211> LENGTH: 1073
160 <212> TYPE: PRT
161 <213> ORGANISM: Human
163 <223> OTHER INFORMATION: TA6-Human integrin alpha-6A
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169 Leu Ser Arg Leu Gly Ala Ala Phe Asn Leu Asp Thr Arg Glu Asp Asn
170              20                  25                  30
172 Val Ile Arg Lys Tyr Gly Asp Pro Gly Ser Leu Phe Gly Phe Ser Leu
173          35                  40                  45
175 Ala Met His Trp Gln Leu Gln Pro Glu Asp Lys Arg Leu Leu Leu Val
176      50                  55                  60
178 Gly Ala Pro Arg Gly Glu Ala Leu Pro Leu Gln Arg Ala Asn Arg Thr
179  65                  70                  75                  80
181 Gly Gly Leu Tyr Ser Cys Asp Ile Thr Ala Arg Gly Pro Cys Thr Arg
182                 85                  90                  95
184 Ile Glu Phe Asp Asn Asp Ala Asp Pro Thr Ser Glu Ser Lys Glu Asp
185              100                 105                 110
187 Gln Trp Met Gly Val Thr Val Gln Ser Gln Gly Pro Gly Gly Lys Val
188          115                 120                 125
189 Val Thr Cys Ala His Arg Tyr Glu Lys Arg Gln His Val Asn Thr Lys
190      130                 135                 140
192 Gln Glu Ser Arg Asp Ile Phe Gly Arg Cys Tyr Val Leu Ser Gln Asn
193 145                 150                 155                 160
195 Leu Arg Ile Glu Asp Asp Met Asp Gly Gly Asp Trp Ser Phe Cys Asp
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PATENT APPLICATION: US/10/088,639 TIME: 14:10:46

Input Set : A:\003300-920.ST25.txt
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```
196                 165                 170                 175
198 Gly Arg Leu Arg Gly His Glu Lys Phe Gly Ser Cys Gln Gln Gly Val
199             180                 185                 190
201 Ala Ala Thr Phe Thr Lys Asp Phe His Tyr Ile Val Phe Gly Ala Pro
202         195                 200                 205
204 Gly Thr Tyr Asn Trp Lys Gly Ile Val Arg Val Glu Gln Lys Asn Asn
205     210                 215                 220
207 Thr Phe Phe Asp Met Asn Ile Phe Glu Asp Gly Pro Tyr Glu Val Gly
208 225                 230                 235                 240
210 Gly Glu Thr Glu His Asp Glu Ser Leu Val Pro Val Pro Ala Asn Ser
211                 245                 250                 255
213 Tyr Leu Gly Phe Ser Leu Asp Ser Gly Lys Gly Ile Val Ser Lys Asp
214             260                 265                 270
216 Glu Ile Thr Phe Val Ser Gly Ala Pro Arg Ala Asn His Ser Gly Ala
217         275                 280                 285
219 Val Val Leu Leu Lys Arg Asp Met Lys Ser Ala His Leu Leu Pro Glu
220     290                 295                 300
222 His Ile Phe Asp Gly Glu Gly Leu Ala Ser Ser Phe Gly Tyr Asp Val
223 305                 310                 315                 320
225 Ala Val Val Asp Leu Asn Lys Asp Gly Trp Gln Asp Ile Val Ile Gly
226                 325                 330                 335
228 Ala Pro Gln Tyr Phe Asp Arg Asp Gly Glu Val Gly Gly Ala Val Tyr
229             340                 345                 350
231 Val Tyr Met Asn Gln Gln Gly Arg Trp Asn Asn Val Lys Pro Ile Arg
232         355                 360                 365
234 Leu Asn Gly Thr Lys Asp Ser Met Phe Gly Ile Ala Val Lys Asn Ile
235     370                 375                 380
237 Gly Asp Ile Asn Gln Asp Gly Tyr Pro Asp Ile Ala Val Gly Ala Pro
238 385                 390                 395                 400
240 Tyr Asp Asp Leu Gly Lys Val Phe Ile Tyr His Gly Ser Ala Asn Gly
241                 405                 410                 415
243 Ile Asn Thr Lys Pro Thr Gln Val Leu Lys Gly Ile Ser Pro Tyr Phe
244             420                 425                 430
246 Gly Tyr Ser Ile Ala Gly Asn Met Asp Leu Asp Arg Asn Ser Tyr Pro
247         435                 440                 445
248 Asp Val Ala Val Gly Ser Leu Ser Asp Ser Val Thr Ile Phe Arg Ser
249     450                 455                 460
251 Arg Pro Val Ile Asn Ile Gln Lys Thr Ile Thr Val Thr Pro Asn Arg
252 465                 470                 475                 480
254 Ile Asp Leu Arg Gln Lys Thr Ala Cys Gly Ala Pro Ser Gly Ile Cys
255                 485                 490                 495
257 Leu Gln Val Lys Ser Cys Phe Glu Tyr Thr Ala Asn Pro Ala Gly Tyr
258             500                 505                 510
260 Asn Pro Ser Ile Ser Ile Val Gly Thr Leu Glu Ala Glu Lys Glu Arg
261         515                 520                 525
263 Arg Lys Ser Gly Leu Ser Ser Arg Val Gln Phe Arg Asn Gln Gly Ser
264     530                 535                 540
266 Glu Pro Lys Tyr Thr Gln Glu Leu Thr Leu Lys Arg Gln Lys Gln Lys
267 545                 550                 555                 560
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PATENT APPLICATION: US/10/088,639 TIME: 14:10:46

Input Set : A:\003300-920.ST25.txt
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269 Val Cys Met Glu Glu Thr Leu Trp Leu Gln Asp Asn Ile Arg Asp Lys
270                 565                 570                 575
272 Leu Arg Pro Ile Pro Ile Thr Ala Ser Val Glu Ile Gln Glu Pro Ser
273             580                 585                 590
275 Ser Arg Arg Arg Val Asn Ser Leu Pro Glu Val Leu Pro Ile Leu Asn
276         595                 600                 605
278 Ser Asp Glu Pro Lys Thr Ala His Ile Asp Val His Phe Leu Lys Glu
279     610                 615                 620
281 Gly Cys Gly Asp Asp Asn Val Cys Asn Ser Asn Leu Lys Leu Glu Tyr
282 625                 630                 635                 640
284 Lys Phe Cys Thr Arg Glu Gly Asn Gln Asp Lys Phe Ser Tyr Leu Pro
285                 645                 650                 655
287 Ile Gln Lys Gly Val Pro Glu Leu Val Leu Lys Asp Gln Lys Asp Ile
288             660                 665                 670
290 Ala Leu Glu Ile Thr Val Thr Asn Ser Pro Ser Asn Pro Arg Asn Pro
291         675                 680                 685
293 Thr Lys Asp Gly Asp Asp Ala His Glu Ala Lys Leu Ile Ala Thr Phe
294     690                 695                 700
296 Pro Asp Thr Leu Thr Tyr Ser Ala Tyr Arg Glu Leu Arg Ala Phe Pro
297 705                 710                 715                 720
299 Glu Lys Gln Leu Ser Cys Val Ala Asn Gln Asn Gly Ser Gln Ala Asp
300                 725                 730                 735
302 Cys Glu Leu Gly Asn Pro Phe Lys Arg Asn Ser Asn Val Thr Phe Tyr
303             740                 745                 750
305 Leu Val Leu Ser Thr Thr Glu Val Thr Phe Asp Thr Pro Asp Leu Asp
306         755                 760                 765
307 Ile Asn Leu Lys Leu Glu Thr Thr Ser Asn Gln Asp Asn Leu Ala Pro
308     770                 775                 780
310 Ile Thr Ala Lys Ala Lys Val Val Ile Glu Leu Leu Leu Ser Val Ser
311 785                 790                 795                 800
313 Gly Val Ala Lys Pro Ser Gln Val Tyr Phe Gly Gly Thr Val Val Gly
314                 805                 810                 815
316 Glu Gln Ala Met Lys Ser Glu Asp Glu Val Gly Ser Leu Ile Glu Tyr
317             820                 825                 830
319 Glu Phe Arg Val Ile Asn Leu Gly Lys Pro Leu Thr Asn Leu Gly Thr
320         835                 840                 845
322 Ala Thr Leu Asn Ile Gln Trp Pro Lys Glu Ile Ser Asn Gly Lys Trp
323     850                 855                 860
325 Leu Leu Tyr Leu Val Lys Val Glu Ser Lys Gly Leu Glu Lys Val Thr
326 865                 870                 875                 880
328 Cys Glu Pro Gln Lys Glu Ile Asn Ser Leu Asn Leu Thr Glu Ser His
329                 885                 890                 895
331 Asn Ser Arg Lys Lys Arg Glu Ile Thr Glu Lys Gln Ile Asp Asp Asn
332             900                 905                 910
334 Arg Lys Phe Ser Leu Phe Ala Glu Arg Lys Tyr Gln Thr Leu Asn Cys
335         915                 920                 925
337 Ser Val Asn Val Asn Cys Val Asn Ile Arg Cys Pro Leu Arg Gly Leu
338     930                 935                 940
340 Asp Ser Lys Ala Ser Leu Ile Leu Arg Ser Arg Leu Trp Asn Ser Thr
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PATENT APPLICATION: US/10/088,639 TIME: 14:10:46

Input Set : A:\003300-920.ST25.txt
Output Set: N:\CRF3\08062002\J088639.raw

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343 Phe Leu Glu Glu Tyr Ser Lys Leu Asn Tyr Leu Asp Ile Leu Met Arg
344                 965                 970                 975
346 Ala Phe Ile Asp Val Thr Ala Ala Ala Glu Asn Ile Arg Leu Pro Asn
347             980                 985                 990
349 Ala Gly Thr Gln Val Arg Val Thr Val Phe Pro Ser Lys Thr Val Ala
350         995                1000                1005
352 Gln Tyr Ser Gly Val Pro Trp Trp Ile Ile Leu Val Ala Ile Leu Ala
353    1010                1015                1020
355 Gly Ile Leu Met Leu Ala Leu Leu Val Phe Ile Leu Trp Lys Cys Gly
356 1025                1030                1035                1040
358 Phe Phe Lys Arg Asn Lys Lys Asp His Tyr Asp Ala Thr Tyr His Lys
359                 1045                1050                1055
361 Ala Glu Ile His Ala Gln Pro Ser Asp Lys Glu Arg Leu Thr Ser Asp
362             1060                1065                1070
364 Ala
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367 <211> LENGTH: 1875
368 <212> TYPE: PRT
369 <213> ORGANISM: Human
371 <223> OTHER INFORMATION: Integrin beta-4 precursor
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378              20                  25                  30
380 Ala Pro Val Lys Ser Cys Thr Glu Cys Val Arg Val Asp Lys Asp Cys
381          35                  40                  45
383 Ala Tyr Cys Thr Asp Glu Met Phe Arg Asp Arg Arg Cys Asn Thr Gln
384      50                  55                  60
386 Ala Glu Leu Leu Ala Ala Gly Cys Gln Arg Glu Ser Ile Val Val Met
387  65                  70                  75                  80
389 Glu Ser Ser Phe Gln Ile Thr Glu Glu Thr Gln Ile Asp Thr Thr Leu
390                  85                  90                  95
392 Arg Arg Ser Gln Met Ser Pro Gln Gly Leu Arg Val Arg Leu Arg Pro
393             100                 105                 110
395 Gly Glu Glu Arg His Phe Glu Leu Glu Val Phe Glu Pro Leu Glu Ser
396         115                 120                 125
398 Pro Val Asp Leu Tyr Ile Leu Met Asp Phe Ser Asn Ser Met Ser Asp
399     130                 135                 140
401 Asp Leu Asp Asn Leu Lys Lys Met Gly Gln Asn Leu Ala Arg Val Leu
402 145                 150                 155                 160
404 Ser Gln Leu Thr Ser Asp Tyr Thr Ile Gly Phe Gly Lys Phe Val Asp
405                 165                 170                 175
407 Lys Val Ser Val Pro Gln Thr Asp Met Arg Pro Glu Lys Leu Lys Glu
408             180                 185                 190
410 Pro Trp Pro Asn Ser Asp Pro Pro Phe Ser Phe Lys Asn Val Ile Ser
411         195                 200                 205
413 Leu Thr Glu Asp Val Asp Glu Phe Arg Asn Lys Leu Gln Gly Glu Arg
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Input Set : A:\003300-920.ST25.txt
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417 225                 230                 235                 240
419 Gln Thr Ala Val Cys Thr Arg Asp Ile Gly Trp Arg Pro Asp Ser Thr
420                 245                 250                 255
422 His Leu Leu Val Phe Ser Thr Glu Ser Ala Phe His Tyr Glu Ala Asp
423             260                 265                 270
425 Gly Ala Asn Val Leu Ala Gly Ile Met Ser Arg Asn Asp Glu Arg Cys
426         275                 280                 285
427 His Leu Asp Thr Thr Gly Thr Tyr Thr Gln Tyr Arg Thr Gln Asp Tyr
428     290                 295                 300
430 Pro Ser Val Pro Thr Leu Val Arg Leu Leu Ala Lys His Asn Ile Ile
431 305                 310                 315                 320
433 Pro Ile Phe Ala Val Thr Asn Tyr Ser Tyr Ser Tyr Tyr Glu Lys Leu
434                 325                 330                 335
436 His Thr Tyr Phe Pro Val Ser Ser Leu Gly Val Leu Gln Glu Asp Ser
437             340                 345                 350
439 Ser Asn Ile Val Glu Leu Leu Glu Glu Ala Phe Asn Arg Ile Arg Ser
440         355                 360                 365
442 Asn Leu Asp Ile Arg Ala Leu Asp Ser Pro Arg Gly Leu Arg Thr Glu
443     370                 375                 380
445 Val Thr Ser Lys Met Phe Gln Lys Thr Arg Thr Gly Ser Phe His Ile
446 385                 390                 395                 400
448 Arg Arg Gly Glu Val Gly Ile Tyr Gln Val Gln Leu Arg Ala Leu Glu
449                 405                 410                 415
451 His Val Asp Gly Thr His Val Cys Gln Leu Pro Glu Asp Gln Lys Gly
452             420                 425                 430
454 Asn Ile His Leu Lys Pro Ser Phe Ser Asp Gly Leu Lys Met Asp Ala
455         435                 440                 445
457 Gly Ile Ile Cys Asp Val Cys Thr Cys Glu Leu Gln Lys Glu Val Arg
458     450                 455                 460
460 Ser Ala Arg Cys Ser Phe Asn Gly Asp Phe Val Cys Gly Gln Cys Val
461 465                 470                 475                 480
463 Cys Ser Glu Gly Trp Ser Gly Gln Thr Cys Asn Cys Ser Thr Gly Ser
464                 485                 490                 495
466 Leu Ser Asp Ile Gln Pro Cys Leu Arg Glu Gly Glu Asp Lys Pro Cys
467             500                 505                 510
469 Ser Gly Arg Gly Glu Cys Gln Cys Gly His Cys Val Cys Tyr Gly Glu
470         515                 520                 525
472 Gly Arg Tyr Glu Gly Gln Phe Cys Glu Tyr Asp Asn Phe Gln Cys Pro
473     530                 535                 540
475 Arg Thr Ser Gly Phe Leu Cys Asn Asp Arg Gly Arg Cys Ser Met Gly
476 545                 550                 555                 560
478 Gln Cys Val Cys Glu Pro Gly Trp Thr Gly Pro Ser Cys Asp Cys Pro
479                 565                 570                 575
481 Leu Ser Asn Ala Thr Cys Ile Asp Ser Asn Gly Gly Ile Cys Asn Gly
482             580                 585                 590
484 Arg Gly His Cys Glu Cys Gly Arg Cys His Cys His Gln Gln Ser Leu
485         595                 600                 605
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PATENT APPLICATION: US/10/088,639 TIME: 14:10:46

Input Set : A:\003300-920.ST25.txt
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489 Leu Cys Glu Asp Leu Arg Ser Cys Val Gln Cys Gln Ala Trp Gly Thr
490 625                 630                 635                 640
492 Gly Glu Lys Lys Gly Arg Thr Cys Glu Glu Cys Asn Phe Lys Val Lys
493                 645                 650                 655
495 Met Val Asp Glu Leu Lys Arg Ala Glu Glu Val Val Val Arg Cys Ser
496             660                 665                 670
498 Phe Arg Asp Glu Asp Asp Asp Cys Thr Tyr Ser Tyr Thr Met Glu Gly
499         675                 680                 685
501 Asp Gly Ala Pro Gly Pro Asn Ser Thr Val Leu Val His Lys Lys Lys
502     690                 695                 700
504 Asp Cys Pro Pro Gly Ser Phe Trp Trp Leu Ile Pro Leu Leu Leu Leu
505 705                 710                 715                 720
507 Leu Leu Pro Leu Leu Ala Leu Leu Leu Leu Leu Cys Trp Lys Tyr Cys
508                 725                 730                 735
510 Ala Cys Cys Lys Ala Cys Leu Ala Leu Leu Pro Cys Cys Asn Arg Gly
511             740                 745                 750
513 His Met Val Gly Phe Lys Glu Asp His Tyr Met Leu Arg Glu Asn Leu
514         755                 760                 765
516 Met Ala Ser Asp His Leu Asp Thr Pro Met Leu Arg Ser Gly Asn Leu
517     770                 775                 780
519 Lys Gly Arg Asp Val Val Arg Trp Lys Val Thr Asn Asn Met Gln Arg
520 785                 790                 795                 800
522 Pro Gly Phe Ala Thr His Ala Ala Ser Ile Asn Pro Thr Glu Leu Val
523                 805                 810                 815
525 Pro Tyr Gly Leu Ser Leu Arg Leu Ala Arg Leu Cys Thr Glu Asn Leu
526             820                 825                 830
528 Leu Lys Pro Asp Thr Arg Glu Cys Ala Gln Leu Arg Gln Glu Val Glu
529         835                 840                 845
531 Glu Asn Leu Asn Glu Val Tyr Arg Gln Ile Ser Gly Val His Lys Leu
532     850                 855                 860
534 Gln Gln Thr Lys Phe Arg Gln Gln Pro Asn Ala Gly Lys Lys Gln Asp
535 865                 870                 875                 880
537 His Thr Ile Val Asp Thr Val Leu Met Ala Pro Arg Ser Ala Lys Pro
538                 885                 890                 895
540 Ala Leu Leu Lys Leu Thr Glu Lys Gln Val Glu Gln Arg Ala Phe His
541             900                 905                 910
543 Asp Leu Lys Val Ala Pro Gly Tyr Tyr Thr Leu Thr Ala Asp Gln Asp
544         915                 920                 925
545 Ala Arg Gly Met Val Glu Phe Gln Glu Gly Val Glu Leu Val Asp Val
546     930                 935                 940
548 Arg Val Pro Leu Phe Ile Arg Pro Glu Asp Asp Asp Glu Lys Gln Leu
549 945                 950                 955                 960
551 Leu Val Glu Ala Ile Asp Val Pro Ala Gly Thr Ala Thr Leu Gly Arg
552                 965                 970                 975
554 Arg Leu Val Asn Ile Thr Ile Ile Lys Glu Gln Ala Arg Asp Val Val
555             980                 985                 990
557 Ser Phe Glu Gln Pro Glu Phe Ser Val Ser Arg Gly Asp Gln Val Ala
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RAW SEQUENCE LISTING DATE: 08/06/2002
PATENT APPLICATION: US/10/088,639 TIME: 14:10:46

Input Set : A:\003300-920.ST25.txt
Output Set: N:\CRF3\08062002\J088639.raw

```
558         995                 1000                1005
560 Arg Ile Pro Val Ile Arg Arg Val Leu Asp Gly Gly Lys Ser Gln Val
561    1010                1015                1020
563 Ser Tyr Arg Thr Gln Asp Gly Thr Ala Gln Gly Asn Arg Asp Tyr Ile
564 1025                1030                1035                1040
566 Pro Val Glu Gly Glu Leu Leu Phe Gln Pro Gly Glu Ala Trp Lys Glu
567                 1045                1050                1055
569 Leu Gln Val Lys Leu Leu Glu Leu Gln Glu Val Asp Ser Leu Leu Arg
570             1060                1065                1070
572 Gly Arg Gln Val Arg Arg Phe His Val Gln Leu Ser Asn Pro Lys Phe
573         1075                1080                1085
575 Gly Ala His Leu Gly Gln Pro His Ser Thr Thr Ile Ile Ile Arg Asp
576    1090                1095                1100
578 Pro Asp Glu Leu Asp Arg Ser Phe Thr Ser Gln Met Leu Ser Ser Gln
579 1105                1110                1115                1120
581 Pro Pro Pro His Gly Asp Leu Gly Ala Pro Gln Asn Pro Asn Ala Lys
582                 1125                1130                1135
584 Ala Ala Gly Ser Arg Lys Ile His Phe Asn Trp Leu Pro Pro Ser Gly
585             1140                1145                1150
587 Lys Pro Met Gly Tyr Arg Val Lys Tyr Trp Ile Gln Gly Asp Ser Glu
588         1155                1160                1165
590 Ser Glu Ala His Leu Leu Asp Ser Lys Val Pro Ser Val Glu Leu Thr
591    1170                1175                1180
593 Asn Leu Tyr Pro Tyr Cys Asp Tyr Glu Met Lys Val Cys Ala Tyr Gly
594 1185                1190                1195                1200
596 Ala Gln Gly Glu Gly Pro Tyr Ser Ser Leu Val Ser Cys Arg Thr His
597                 1205                1210                1215
599 Gln Glu Val Pro Ser Glu Pro Gly Arg Leu Ala Phe Asn Val Val Ser
600             1220                1225                1230
602 Ser Thr Val Thr Gln Leu Ser Trp Ala Glu Pro Ala Glu Thr Asn Gly
603         1235                1240                1245
604 Glu Ile Thr Ala Tyr Glu Val Cys Tyr Gly Leu Val Asn Asp Asp Asn
605    1250                1255                1260
607 Arg Pro Ile Gly Pro Met Lys Lys Val Leu Val Asp Asn Pro Lys Asn
608 1265                1270                1275                1280
610 Arg Met Leu Leu Ile Glu Asn Leu Arg Glu Ser Gln Pro Tyr Arg Tyr
611                 1285                1290                1295
613 Thr Val Lys Ala Arg Asn Gly Ala Gly Trp Gly Pro Glu Arg Glu Ala
614             1300                1305                1310
616 Ile Ile Asn Leu Ala Thr Gln Pro Lys Arg Pro Met Ser Ile Pro Ile
617         1315                1320                1325
619 Ile Pro Asp Ile Pro Ile Val Asp Ala Gln Ser Gly Glu Asp Tyr Asp
620    1330                1335                1340
622 Ser Phe Leu Met Tyr Ser Asp Asp Val Leu Arg Ser Pro Ser Gly Ser
623 1345                1350                1355                1360
625 Gln Arg Pro Ser Val Ser Asp Asp Thr Gly Cys Gly Trp Lys Phe Glu
626                 1365                1370                1375
628 Pro Leu Leu Gly Glu Glu Leu Asp Leu Arg Arg Val Thr Trp Arg Leu
629             1380                1385                1390
```

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PATENT APPLICATION: US/10/088,639 TIME: 14:10:46

Input Set : A:\003300-920.ST25.txt
Output Set: N:\CRF3\08062002\J088639.raw

```
631 Pro Pro Glu Leu Ile Pro Arg Leu Ser Ala Ser Ser Gly Arg Ser Ser
632        1395                1400                1405
634 Asp Ala Glu Ala Pro Thr Ala Pro Arg Thr Thr Ala Ala Arg Ala Gly
635    1410                1415                1420
637 Arg Ala Ala Ala Val Pro Arg Ser Ala Thr Pro Gly Pro Pro Gly Glu
638 1425                1430                1435                1440
640 His Leu Val Asn Gly Arg Met Asp Phe Ala Phe Pro Gly Ser Thr Asn
641                1445                1450                1455
643 Ser Leu His Arg Met Thr Thr Thr Ser Ala Ala Ala Tyr Gly Thr His
644            1460                1465                1470
646 Leu Ser Pro His Val Pro His Arg Val Leu Ser Thr Ser Ser Thr Leu
647        1475                1480                1485
649 Thr Arg Asp Tyr Asn Ser Leu Thr Arg Ser Glu His Ser His Ser Thr
650    1490                1495                1500
652 Thr Leu Pro Arg Asp Tyr Ser Thr Leu Thr Ser Val Ser Ser His Gly
653 1505                1510                1515                1520
655 Leu Pro Pro Ile Trp Glu His Gly Arg Ser Arg Leu Pro Leu Ser Trp
656                1525                1530                1535
658 Ala Leu Gly Ser Arg Ser Arg Ala Gln Met Lys Gly Phe Pro Pro Ser
659            1540                1545                1550
661 Arg Gly Pro Arg Asp Ser Ile Ile Leu Ala Gly Arg Pro Ala Ala Pro
662        1555                1560                1565
663 Ser Trp Gly Pro Asp Ser Arg Leu Thr Ala Gly Val Pro Asp Thr Pro
664    1570                1575                1580
666 Thr Arg Leu Val Phe Ser Ala Leu Gly Pro Thr Ser Leu Arg Val Ser
667 1585                1590                1595                1600
669 Trp Gln Glu Pro Arg Cys Glu Arg Pro Leu Gln Gly Tyr Ser Val Glu
670                1605                1610                1615
672 Tyr Gln Leu Leu Asn Gly Gly Glu Leu His Arg Leu Asn Ile Pro Asn
673            1620                1625                1630
675 Pro Ala Gln Thr Ser Val Val Val Glu Asp Leu Leu Pro Asn His Ser
676        1635                1640                1645
678 Tyr Val Phe Arg Val Arg Ala Gln Ser Gln Glu Gly Trp Gly Arg Glu
679    1650                1655                1660
681 Arg Glu Gly Val Ile Thr Ile Glu Ser Gln Val His Pro Gln Ser Pro
682 1665                1670                1675                1680
684 Leu Cys Pro Leu Pro Gly Ser Ala Phe Thr Leu Ser Thr Pro Ser Ala
685                1685                1690                1695
687 Pro Gly Pro Leu Val Phe Thr Ala Leu Ser Pro Asp Ser Leu Gln Leu
688            1700                1705                1710
690 Ser Trp Glu Arg Pro Arg Arg Pro Asn Gly Asp Ile Val Gly Tyr Leu
691        1715                1720                1725
693 Val Thr Cys Glu Met Ala Gln Gly Gly Gly Pro Ala Thr Ala Phe Arg
694    1730                1735                1740
696 Val Asp Gly Asp Ser Pro Glu Ser Arg Leu Thr Val Pro Gly Leu Ser
697 1745                1750                1755                1760
699 Glu Asn Val Pro Tyr Lys Phe Lys Val Gln Ala Arg Thr Thr Glu Gly
700                1765                1770                1775
702 Phe Gly Pro Glu Arg Glu Gly Ile Ile Thr Ile Glu Ser Gln Asp Gly
```

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Input Set : A:\003300-920.ST25.txt
Output Set: N:\CRF3\08062002\J088639.raw

```
703            1780                1785                1790
705 Gly Pro Phe Pro Gln Leu Gly Ser Arg Ala Gly Leu Phe Gln His Pro
706        1795                1800                1805
708 Leu Gln Ser Glu Tyr Ser Ser Ile Thr Thr Thr His Thr Ser Ala Thr
709    1810                1815                1820
711 Glu Pro Phe Leu Val Asp Gly Pro Thr Leu Gly Ala Gln His Leu Glu
712 1825                1830                1835                1840
714 Ala Gly Gly Ser Leu Thr Arg His Val Thr Gln Glu Phe Val Ser Arg
715                1845                1850                1855
717 Thr Leu Thr Thr Ser Gly Thr Leu Ser Thr His Met Asp Gln Gln Phe
718            1860                1865                1870
720 Phe Gln Thr
721        1875
722 <210> SEQ ID NO: 5
723 <211> LENGTH: 8
724 <212> TYPE: PRT
725 <213> ORGANISM: Human
727 <223> OTHER INFORMATION: Amino acids 61-68 of SEQ ID NO: 3
E--> 729 <400> SEQUENCE: 5
730 Leu Leu Leu Val Gly Ala Pro Arg
731   1               5
734 <210> SEQ ID NO: 6
735 <211> LENGTH: 20
736 <212> TYPE: PRT
737 <213> ORGANISM: Human
739 <223> OTHER INFORMATION: Amino acids 77-96 of SEQ ID NO: 3
E--> 741 <400> SEQUENCE: 6
742 Ala Asn Arg Thr Gly Gly Leu Tyr Ser Cys Asp Ile Thr Ala Arg Gly
743   1               5                  10                  15
745 Pro Cys Thr Arg
746              20
749 <210> SEQ ID NO: 7
750 <211> LENGTH: 10
751 <212> TYPE: PRT
752 <213> ORGANISM: Human
754 <223> OTHER INFORMATION: Amino acids 127-137 of SEQ ID NO: 3
E--> 756 <400> SEQUENCE: 7
757 Val Val Thr Cys Ala His Arg Tyr Glu Lys
758   1               5                  10
761 <210> SEQ ID NO: 8
762 <211> LENGTH: 7
763 <212> TYPE: PRT
764 <213> ORGANISM: Human
766 <223> OTHER INFORMATION: Amino acids 138-144 of SEQ ID NO: 3
E--> 768 <400> SEQUENCE: 8
769 Arg Gln His Val Asn Thr Lys
770   1               5
773 <210> SEQ ID NO: 9
774 <211> LENGTH: 9
```

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PATENT APPLICATION: US/10/088,639 TIME: 14:10:46

Input Set : A:\003300-920.ST25.txt
Output Set: N:\CRF3\08062002\J088639.raw

775 <212> TYPE: PRT
776 <213> ORGANISM: Human same
778 <223> OTHER INFORMATION: Amino acids 154-162 of SEQ ID NO: 3
E--> 780 <400> SEQUENCE: 9
781 Cys Tyr Val Leu Ser Gln Asn Leu Arg
782 1 5
783 <210> SEQ ID NO: 10
784 <211> LENGTH: 14
785 <212> TYPE: PRT
786 <213> ORGANISM: Human same
788 <223> OTHER INFORMATION: Amino acids 185-198 of SEQ ID NO: 3
E--> 790 <400> SEQUENCE: 10
791 Phe Gly Ser Cys Gln Gln Gly Val Ala Ala Thr Phe Thr Lys
792 1 5 10
795 <210> SEQ ID NO: 11
796 <211> LENGTH: 16
797 <212> TYPE: PRT
798 <213> ORGANISM: Human same
800 <223> OTHER INFORMATION: Amino acids 198-214 of SEQ ID NO: 3
E--> 802 <400> SEQUENCE: 11
803 Asp Phe His Tyr Ile Val Phe Gly Ala Pro Gly Thr Tyr Asn Trp Lys
804 1 5 10 15
807 <210> SEQ ID NO: 12
808 <211> LENGTH: 11
809 <212> TYPE: PRT
810 <213> ORGANISM: Human same
812 <223> OTHER INFORMATION: Amino acids 272-282 of SEQ ID NO: 3
E--> 814 <400> SEQUENCE: 12
815 Asp Glu Ile Thr Phe Val Ser Gly Ala Pro Arg
816 1 5 10
819 <210> SEQ ID NO: 13
820 <211> LENGTH: 11
821 <212> TYPE: PRT
822 <213> ORGANISM: Human same
824 <223> OTHER INFORMATION: Amino acids 283-293 of SEQ ID NO: 3
E--> 826 <400> SEQUENCE: 13
827 Ala Asn His Ser Gly Ala Val Val Leu Leu Lys
828 1 5 10
831 <210> SEQ ID NO: 14
832 <211> LENGTH: 16
833 <212> TYPE: PRT
834 <213> ORGANISM: Human same
836 <223> OTHER INFORMATION: Amino acids 328-343 of SEQ ID NO: 3
E--> 838 <400> SEQUENCE: 14
839 Asp Gly Trp Gln Asp Ile Val Ile Gly Ala Pro Gln Tyr Phe Asp Arg
840 1 5 10 15
841 <210> SEQ ID NO: 15
842 <211> LENGTH: 17
843 <212> TYPE: PRT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/088,639

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Input Set : A:\003300-920.ST25.txt
Output Set: N:\CRF3\08062002\J088639.raw

844 <213> ORGANISM: Human
846 <223> OTHER INFORMATION: Amino acids 344-360 of SEQ ID NO: 3
E--> 848 <400> SEQUENCE: 15
849 Asp Gly Glu Val Gly Gly Ala Val Tyr Val Tyr Met Asn Gln Gln Gly
850 1 5 10 15
852 Arg
856 <210> SEQ ID NO: 16
857 <211> LENGTH: 8
858 <212> TYPE: PRT
859 <213> ORGANISM: Human
861 <223> OTHER INFORMATION: Amino acids 361-368 of SEQ ID NO: 3
E--> 863 <400> SEQUENCE: 16
864 Trp Asn Asn Val Lys Pro Ile Arg
865 1 5
868 <210> SEQ ID NO: 17
869 <211> LENGTH: 24
870 <212> TYPE: PRT
871 <213> ORGANISM: Human
873 <223> OTHER INFORMATION: Amino acids 383-406 of SEQ ID NO: 3
E--> 875 <400> SEQUENCE: 17
876 Asn Ile Gly Asp Ile Asn Gln Asp Gly Tyr Pro Asp Ile Ala Val Gly
877 1 5 10 15
879 Ala Pro Tyr Asp Asp Leu Gly Lys
880 20
883 <210> SEQ ID NO: 18
884 <211> LENGTH: 18
885 <212> TYPE: PRT
886 <213> ORGANISM: Human
888 <223> OTHER INFORMATION: Amino acids 427-444 of SEQ ID NO: 3
E--> 890 <400> SEQUENCE: 18
891 Gly Ile Ser Pro Tyr Phe Gly Tyr Ser Ile Ala Gly Asn Met Asp Leu
892 1 5 10 15
894 Asp Arg
896 <210> SEQ ID NO: 19
897 <211> LENGTH: 19
898 <212> TYPE: PRT
899 <213> ORGANISM: Human
901 <223> OTHER INFORMATION: Amino acids 445-463 of SEQ ID NO: 3
E--> 903 <400> SEQUENCE: 19
904 Asn Ser Tyr Pro Asp Val Ala Val Gly Ser Leu Ser Asp Ser Val Thr
905 1 5 10 15
907 Ile Phe Arg
911 <210> SEQ ID NO: 20
912 <211> LENGTH: 9
913 <212> TYPE: PRT
914 <213> ORGANISM: Human
916 <223> OTHER INFORMATION: Amino acids 464-472 of SEQ ID NO: 3
E--> 918 <400> SEQUENCE: 20
919 Ser Arg Pro Val Ile Asn Ile Gln Lys

RAW SEQUENCE LISTING DATE: 08/06/2002
PATENT APPLICATION: US/10/088,639 TIME: 14:10:46

Input Set : A:\003300-920.ST25.txt
Output Set: N:\CRF3\08062002\J088639.raw

```
     920   1               5
     1137 <210> SEQ ID NO: 39
     1138 <211> LENGTH: 18
     1139 <212> TYPE: PRT
     1140 <213> ORGANISM: Human
     1142 <223> OTHER INFORMATION: Amino acids 414-431 of SEQ ID NO: 4
E--> 1144 <400> SEQUENCE: 39Ala Leu Glu His Val Asp Gly Thr His Val Cys Gln Leu Pro Glu
     1145 Asp
E--> 1146   1               5                  10                  15
E--> 1148 Gln Lys
```

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

Insert a hard return

VERIFICATION SUMMARY DATE: 08/06/2002
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Input Set : **A:\003300-920.ST25.txt**
Output Set: **N:\CRF3\08062002\J088639.raw**

L:36 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:1
L:108 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:2
L:165 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:3
L:373 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:4
L:729 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:5
L:741 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:6
L:756 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:7
L:768 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:8
L:780 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:9
L:790 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:10
L:802 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:11
L:814 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:12
L:826 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:13
L:838 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:14
L:848 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:15
L:863 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:16
L:875 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:17
L:890 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:18
L:903 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:19
L:918 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:20
L:930 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:21
L:945 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:22
L:958 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:23
L:970 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:24
L:982 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:25
L:994 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:26
L:1006 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:27
L:1016 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:28
L:1028 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:29
L:1040 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:30
L:1052 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:31
L:1064 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:32
L:1074 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:33
L:1086 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:34
L:1098 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:35
L:1110 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:36
L:1122 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:37
L:1132 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:38
L:1144 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:39
L:1146 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:39
L:1148 M:252 E: No. of Seq. differs, <211> LENGTH:Input:18 Found:3 SEQ:39
L:1159 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:40
L:1171 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:41
L:1183 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:42
L:1193 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:43
L:1205 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:44
L:1220 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:45
L:1232 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:46

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Input Set : **A:\003300-920.ST25.txt**
Output Set: **N:\CRF3\08062002\J088639.raw**

L:1244 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:47
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L:1268 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:49
L:1280 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:50